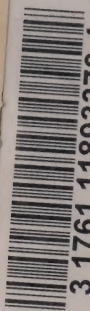


Government
Publications



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ELECTRICAL ENERGY

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FACTS AND CONCEPTS
FOR JUNIOR,
INTERMEDIATE AND
SENIOR DIVISION
PROGRAMS


General publications 9

Hydro - Electric Power Comm.

Ontario Hydro

66-67

STUDY AIDS FOR TEACHERS



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The material was researched, developed and prepared in consultation with co-ordinators, department heads and teachers and programmed using the curriculum guidelines of the Ontario Ministry of Education in a variety of subject areas as standards.

Each of the multi-media study aids has been designed to deal with facts and concepts in terms of both the electrical energy industry and general studies relating to resource / economic development and management. Hopefully they will be found useful in a wide range of thematic study areas.

Suggestions and comments are welcome as these will be of considerable value when the aids are reviewed at the end of each school term. Possible changes or revisions, in light of any technical developments or to improve the content, will be completed during the summer recess.

Supplementary assistance for special projects or programs is available.



PROGRAM LOAN SERVICE

The aids are available (free of charge) on a loan basis to teachers only for a period of **ten days** upon written or telephone request to:

Ontario Hydro
Photo Library
Room H-1236
620 University Avenue
Toronto 2, Ontario
368-6767, ext. 22597

Please specify date required and give an alternate date or dates in the event that an aid is not immediately available. When returning the aid, please return by registered mail and insure for the value stated in the general information section of the aid.

Suggestions, comments and supplementary assistance requests should be directed to the co-ordinator of the program as follows:

Ontario Hydro
Public Relations Division
Mr. James M. Black
Room H-1254
620 University Avenue
Toronto 2, Ontario
368-6767, ext. 22101

ADDITIONAL AIDS

Two additional aids are under development: **ELECTRICAL ENERGY AND TECHNOLOGY** (senior division 11-13) and **ELECTRICAL ENERGY AND THE ENVIRONMENT** (intermediate-senior divisions 7-13). Information on these aids will be forwarded before placement in the loan service.

Junior Division (4-6)

ELECTRICITY FOR ELEMENTARY STUDY slide module series number three

Section One: Electricity - Concepts and Terminology

A number of unstructured slides dealing with the language of electricity and related basic technical concepts.

**Section Two: Classroom Model
Construction Kit**

A punch-out component model of an energy system with segments of the community which it serves. The model can be used to deal with a variety of concepts: water use, transportation, urban-rural communities, community components, are a few suggestions.

**Section Three: Electricity - How It's Made,
Used and Delivered**

A series of slides relating model components to actual equipment and dealing with basic community-energy concepts.

Section Four: Electrical Safety

When electricity is dangerous and why, with situations to avoid.

Intermediate-Senior Divisions (7-13)

ELECTRICAL ENERGY

slide module series number one

This aid deals with a variety of facts and concepts in the form of slides, copy, diagrams and graphs and relates to the production, distribution and use of electrical energy. It is suggested that this aid will find general application in a wide range of thematic study areas. The aid has been structured into six sections for ease in material selection under the following headings:

Section One: Base Load

Section Two: Variable Load

Section Three: Hydraulic Generation

**Section Four: Conventional Thermal
Generation**

Section Five: Nuclear Thermal Generation

Section Six: Transmission and Distribution

A fairly wide selection of slides has been incorporated into each section to allow a choice to be made which will meet the needs of your particular geographic area.

Senior Division (11-13)

ELECTRICAL ENERGY AND WATER RESOURCES

slide module series number four

This aid deals with the Great Lakes-St. Lawrence and Ottawa River Basins in terms of remedial works, diversions, energy production and navigation. The material in this aid has been compiled to deal with facts and concepts relating to the history of development, the geography of change and the application of technology.

Section One: Great Lakes-St. Lawrence Basin

This section deals with historical aspects of development covering navigation, diversions and water use relating to electrical energy production throughout the watershed.

Section Two: Ottawa River Basin

This section deals with the basin and the main stem of the river in terms of precipitation, reservoirs, energy production and navigation.

Section Three: Hydraulic Generation and Equipment

A cursory look at hydraulic stations and equipment, and the role played by one small station in the economics of a region in northern Ontario.



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